ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 • (217) 782-2829
James R. Thompson Center, 100 West Randolph, Suite 11-300, Chicago, IL 60601 • (312) 814-6026

PAT QUINN, GOVERNOR DOUGLAS P. SCOTT, DIRECTOR

"Rockford Region Agricultural Field Investigation Report"

File: Roger Smital Feedlots
County: Jo Daviess
Date: April 7, 2011
Address: 2254 Gidds Road
Kent, IL 61044

Receiving Stream: Yellow Creek

Person Interviewed: Roger Smital Exemption 6 and Exemption 7(C)
Brian Smital

Phone: Roger: Exemption 6 and Exemption 7(C)

Brian: Exemption 6 and Exemption 7(C)

Accompanied by: Kirk Bergstrom, DWPC/FOS/Rockford

Weather: Dry, sunny, 60's

INTRODUCTION

This visit was made to the facility as a result of the observation of manure discharges to a nearby tributary while driving by the farm. Roger and Brian Smital operate the beef-swine facility as a Exemption 6 and Exemption 7(C) partnership. The facility is located in Wards Grove Township/Section 16/Jo Daviess County/Kent, Illinois. Both Roger and Brian were available for the 10:30 AM inspection.

FACILITY OBSERVATIONS

This is a combination beef cattle finishing, farrow-to-finish swine and small beef cow livestock facility. There are two livestock locations: 2254 Gidds Road and 2229 Gidds Road. Reported livestock numbers for each location include:

2254 Gidds Road: 385 head market beef
200 head swine over 55 lbs
25 head stock cows (beef)

2229 Gidds Road: 190 head market beef

2254 Gidds Road Facility

Exemption 6 and Exemption 7(C) Approximately 380 market beef are housed at this location in open concrete feedlots. All four feedlots had discharges, some more serious than others. None of the feedlot buildings contained eave guttering to channel excess storm water away from the feedlot area. Feedlot "A" (see attached map) on the SE corner discharged both east and west to a grass strip that drained south into a cropfield. The manure solids deposited in the cropfield are incorporated into the soil before crops are planted. Smital uses an earthen area south of feedlot "B" (see attached map) to collect manure runoff and allow solids to settle out. The resulting manure solids are collected periodically and land applied to available cropland. Approximately 20 feet of heavy vegetation is established on the south (downhill) side of this collection area which served as a filter area.

Hay and cornstalk round bales are stacked in a pyramid shape and covered with plastic for protection from weather. Approximately 30-35 acres of corn silage (850-875 tons) are harvested and stored in a concrete bunker silo. The concrete floor slopes both to the north and south. Wastewater discharges on the north side of the bunker and flows toward a collection area beside a pile of mortality compost. Silage leachate discharges to the south would also flow toward a cropfield.

The mortality compost consisted of used manure/bedding in a pile measuring approximately 15 ft wide x 35 ft in length x 8 ft in height. Smital said the pile contained two-and-a-half to three years of mortality from the swine and beef enterprises. Some of the animals were exposed. Note: IDOA/Animal Welfare was contacted and informed of this discovery.

There was a dark accumulation of wastewater leachate from the mortality pile and bunker silo bordering a fenceline to a barren pasture. No samples were taken. The leachate did not show evidence of overflowing into the pasture area.

A 2.5 - 3 acre pasture is located on the northwest side of the facility adjacent to the mortality pile. The west side of the pasture has a steep, 5-8%, slope and is barren. A feeding area is located on top of the hill in the southwest side of the pasture. The east side was sufficiently established in grass. A small tile and spring fed tributary flows through the pasture. The pasture did not have any animals at the time of the inspection. The pasture tributary flows near two feedlots: "E" one is swine ("E" on the attached map) and "D" the other is beef ("D" on the attached map).

Water samples were collected in the tributary. Sample B-15 was sampled from upstream above the feedlot point source discharges. Sample B-16 was taken on the west side of the Gidds steel road culvert as a point source sample. Sample B-17 was collected on the east side of Gidds Road as the downhill sample. (See attached maps.) The samples were packed in ice for the return commute to Rockford and prepared for UPS shipment to the Springfield laboratory later that day.

2229 Gidds Road Facility

Exemption 6 and Exemption 7(C) An open, concrete feedlot contains 190 beef animals. Several open sided barns provide housing for the animals. The feedlot discharges to a vegetated pasture at two separate locations: on the northwest side and to the east. The fenced-in pasture is approximately 100 ft wide x 1200-1500 ft in length. There was no apparent discharge from this facility at the time of the visit. A private pond was located in the far distance at the east end of the pasture.

None of the feedlot buildings had eave guttering installed at this location.

SUMMARY

Roger and Brian Smital were informed of the inspection findings. Each feedlot wastewater discharge was discussed at length. The discharges on the north side of the 2254 Gidds Road facility, predominantly from feedlot "D" by the road and the swine feedlot "E", were the most serious and urgent to solve. The discharges from each had evidence of discharging into the tributary. This facility does not have a manure management plan nor a NPDES permit. This facility also does not have a certified livestock manager.

The feedlot facility at the 2229 Gidds Road address also has substantial manure discharges from the feedlot area but not directly into waters of the State.

Smital was advised to seek a qualified technical engineer that could design alternative designs that would bring both livestock facilities into regulatory compliance.

Smital was also advised to develop a manure management plan for each facility location. They were also informed that they should apply for a NPDES permit because of the observed discharges.

Lee Heeren

Lee Heeren, Ag Specialist

LH/svf

Attachments:

- Maps
- Photos
- Sample results
- IEPA Livestock Facility Inspection Checklist

cc: DWPC/FOS and Records Unit
BOW/CAS
Rockford Region

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Livestock Facility Inspection Checklist

GENERAL INFORMATION

TYPE OF INSPECTION:
☒ CAFO ☐ COMPLAINT ☐ RECONNAISSANCE ☐ ERU FOLLOW UP ☐ OPERATOR REQUEST ☐ OTHER

FACILITY NAME (LLC, Inc., Corp, Partnership, sole proprietorship, etc.)	INSPECTION DATE	ARRIVAL TIME
Roger Smital Feedlots	**4-7-11**	**10:55 AM**

ADDRESS	INSPECTOR(s)	DEPARTURE TIME
2254 Gidds Road	**Lee Heeren**	**1:50 PM**

CITY	STATE	ZIP CODE	ACCOMPANIED BY (if applicable)
Kent	**IL**	**61044**	**Kirk Bergstrom**

LEGAL DESCRIPTION	COUNTY	SECTION	TOWNSHIP	RANGE	TEMPERATURE	PRECIPITATION TYPE
	Jo Daviess	**16**	**27N**	**5E**	**60's**	**None**

	NAME	CONTACTED	PHONE	MOBILE
Facility Owner(s): Exemption 6 and Exemption 7(C)	**Roger Smital**	☒ YES ☐ NO	Exemption 6 and Exemption 7(C)	
	ADDRESS	CITY	STATE	ZIP CODE
	Exemption 6 and Exemption 7(C)			
	NAME	CONTACTED ☐ YES ☐ NO	PHONE	MOBILE
	ADDRESS	CITY	STATE	ZIP CODE
Facility Operator(s): Exemption 6 and Exemption 7(C)	NAME **Brian Smital**	CONTACTED ☒ YES ☐ NO	PHONE	MOBILE Exemption 6 and Exemption 7(C)
	ADDRESS	CITY	STATE	ZIP CODE
	Exemption 6 and Exemption 7(C)			
	NAME	CONTACTED ☐ YES ☐ NO	PHONE	MOBILE
	ADDRESS	CITY	STATE	ZIP CODE

NPDES PERMIT INFORMATION (If no NPDES Permit, skip this section)

1. What type of NPDES permit has been issued? ☐ Individual NPDES Permit ☐ General NPDES Permit	NPDES #	
2. What date was the NPDES permit issued?		
3. What date does the NPDES permit expire?		
4. Is a copy of the NPDES permit onsite?	☐ YES	☐ NO
5. Permitted number of animal units?		
6. Does the NPDES Permit contain a compliance schedule?	☐ YES	☐ NO
7. Have there been any changes made to the production area since the permit was issued?	☐ YES	☐ NO

If "YES", provide a detailed description of those changes.

None

LAND APPLICATION/NUTRIENT MANAGEMENT		
1. How many TOTAL acres are available for land application? **1000** acres		
2. How many acres are READILY available for land application at the time of inspection? **300** acres		
3. Estimated annual quantities of liquid waste _____ gallons		
4. Estimated annual quantities of solid waste _____ tons		
5. Does the facility have a contractor perform land application? If "YES", Name of Contractor: _____	☐ YES	☒ NO
6. What type of land application equipment is available to the facility? ☐ Umbilical Injection ☐ Honeywagon Injection ☐ Honeywagon Surface ☐ Irrigation ☐ Rotational Gun ☒ Manure Spreader ☐ Vegetative Filter ☐ Other _____		
7. Does the facility calibrate the land application equipment? If "YES", What method is used?	☐ YES	☒ NO
8. Does the facility land apply within the 150 foot setback from any water well? If "YES", Explain	☐ YES	☒ NO
9. Does the facility land apply within the 200 foot setback from any surface water? If "YES", Explain	☐ YES	☒ NO
10. Does the facility land apply near any residences? If "YES", Explain	☐ YES	☒ NO
11. Is livestock waste transferred off-site to another party? If "YES", Are records of manure transfers kept? If "YES", Ask to see records	☐ YES ☐ YES	☒ NO ☐ NO
12. Does the facility have a current NMP or CNMP? If "YES", Does the facility maintain a copy of the nutrient management plan (NMP) onsite?	☐ YES ☐ YES	☒ NO ☐ NO
13. Does the NMP reflect the current operational characteristics (number of animals, cropping, etc.)?	☐ YES	☐ NO
14. Are the number of acres owned/leased consistent with those in the NMP?	☐ YES	☐ NO
15. Is manure and wastewater being applied in accordance with setback/buffer requirements of the NMP?	☐ YES	☐ NO
16. Are all of the records identified in the NMP being maintained and kept current?	☐ YES	☐ NO
17. Are records being maintained at the required frequency?	☐ YES	☐ NO
18. Are records being maintained onsite for the period required by NMP and/or NPDES permit?	☐ YES	☐ NO
19. Is the NMP adequately addressing the storage, handling and application of manure and wastewater to prevent discharges to waters of the U.S.?	☐ YES	☐ NO

LIVESTOCK FACILITY DESCRIPTION

Facility Type	
☐ Total Confinement Buildings	☒ Open Earthen Feedlot
☒ Open Confinement Buildings	☒ Vegetated Pasture
☒ Open Concrete Feedlot	☐ Other _____

Type of Animals	Number of Animals (currently)	Capacity	Type of Confinement
BEEF CATTLE	**385**	**600**	**Opn Confine/Opn Concrete**
SWINE > 55 LBS	**200**	**200**	**Open Confinement**
BEEF CATTLE	**190 (North Farm)**	**200**	**Opn Confine/Opn Concrete**
BEEF CATTLE	**25**	**25**	**Open Confine/Pasture**

Does the facility have an Illinois Certified Livestock Manager (300 or greater animal units)?	☐ N/A	☐ YES	☒ NO
If greater than 1000 animal units but less than 5000 animal units, does the facility have a waste management plan?	☒ N/A	☐ YES	☐ NO
If greater than 5000 animal units, has the facility submitted a waste management plan to IDOA for review?	☒ N/A	☐ YES	☐ NO
Does the facility have any other locations under common ownership, or where equipment and/or manure is shared, or where the other site shares land application sites? If so, put names and addresses below. **Brian Smital** **2229 Gidds Road** **Stockton, IL 61085**		☒ YES	☐ NO

LIVESTOCK WASTE STORAGE

1. Does the facility have any existing livestock waste containment system? ☐ YES ☒ NO
   If NO, then proceed to question 10.

2. General description of the waste containment system (include solid and liquid manure handling, mortality, and feed storage areas).
   1. Settling area south of Feedlot B.
   2. Stacking area next to farrowing barn.

Type of Storage	Total Storage Capacity (Specify Units)
☐ Anaerobic Lagoon	
☐ Covered Lagoon	
☐ Holding Pond	
☐ Above Ground Storage Tank ("Slurrystore")	
☐ Below Ground Storage Tank	
☒ Settling Basin	**(earthen)**
☒ Roofed Storage Shed	
☒ Concrete Pad	
☐ Impervious Soil Pad	
☐ Underfloor Pits	
☐ Anaerobic Digester	
☒ Manure Stacks	
☐ Vegetative Filter	
☐ Other _____	
☐ None	

3. Do the storage structures have depth markers or staff gauges? ☐ YES ☐ NO

4. Are levels of manure in the storage structures recorded and records kept? ☐ YES ☐ NO

5. Do the storage structures have adequate freeboard? ☐ YES ☐ NO

6. Estimated final stage storage structure freeboard _____ in.

7. Do facility personnel perform routine visual inspections of the storage structures? ☐ YES ☐ NO

8. Are the routine visual inspections documented? ☐ YES ☐ NO

9. Does the system have an outfall or discharge point? ☐ YES ☐ NO

If "YES", please provide a description (overflow pipe, spill way, etc. Include a description the area receiving the discharge).
None

10. Are there any portions of the production area where runoff is not controlled? ☒ YES ☐ NO

If "YES", provide a detailed description of the area(s) of concern:
See attached memo and maps.

MORTALITIES MANAGEMENT

1. How are mortalities managed? (Composted, buried, burned, rendering service, other)
Compost (Not contained)

2. Are mortalities documented and are records kept? ☐ YES ☐ NO

FACILITY WATER SOURCES

1. What type of method is used to provide drinking water for the animals?
   ☒ Overflow waters ☐ Tip Tanks ☐ Nipple waters ☐ Water Bowls ☐ Other _____

2. How is the water for animals obtained?
   ☐ Community PWS ☒ On-Site Well ☐ On-Site Impoundment ☐ Other _____

3. Is a mist cooling system used? ☐ YES ☒ NO
   How is mist water contained?
   None

DAIRY OPERATION (If No Dairy, skip this section)

1. How many times per day are cows milked? _____

2. Describe how the dairy's non-contact cooling water is contained (Example: it is reused for drinking water for the animals).
   None

3. Describe how the milking parlor is cleaned (hose or flush) and where the process wastewater goes and how it is contained.
   None

4. Describe how the tank(s) are washed and where the process wastewater goes and how it is contained.
   None

5. Describe where process wastewater from the plate cooler goes and how it is contained.
   None

BEDDING (If No Bedding, skip this section)

1. Describe what type of bedding is used for the animals.
   Cornstalks, wheat straw

2. Describe how bedding is collected and how often.
   Bedding pack is cleaned 2x/year. Concrete feeding aprons scraped weekly.

3. What is done with the used bedding? ☐ Reused ☒ Land Applied

MANURE COLLECTION

1. How is manure collected?

- ☐ Under Floor Pit
- ☒ Scraped: ☐ Automatic ☒ Manual
- ☐ Flush
- ☐ Solids Separator
- ☐ Other: _____
- ☐ None

2. If manure collection system uses either clean or reused water to flush, describe where this water goes and how it is contained.

None

FEED STORAGE CONTAINMENT

1. Describe how feed (silage, hay, etc) is contained.

- ☒ Bulk Bins
- ☒ Silage Pit
- ☒ Ag Bags
- ☒ Hay: ☒ Barn ☒ Outdoor
- ☐ Other: _____

2. Describe how feed (silage, hay, etc) runoff is contained.

- ☐ Not Applicable – Feed totally enclosed
- ☒ Other: **Hay & bedding round bales are covered w/plastic tarp. Silage bunker not contained.**
- ☐ None

RECEIVING SURFACE WATERS

1. Provide a description of the flow path from the facility to the nearest named surface water.
Feedlot A: discharges east & west to grass and south to a cropfield. Feedlot B: discharges south into an earthen settling area. Feedlot C: discharges east to driveway and into tributary. Feedlot D: discharges north into tributary. Feedlot E: discharges north into tributary. Feedlot F: discharges into grass pasture, channelized partially then open pasture to a wet slough.

2. What is the name of the receiving stream?
Yellow Creek

3. Status of the named surface water: ☐ Intermittent ☒ Perennial

4. Are any unnatural bottom deposits observed in the receiving stream: ☒ YES ☐ NO

If "YES", provide a description of the deposits: **2254: brown manure solids; 2229: not observed**

DISCHARGES		
1. Have there been any documented discharges of livestock waste to surface water ***in the past year***? If "NO" proceed to question 2.	☐ YES	☒ NO
a. If "YES", specify the date(s).		
b. What was the reason for the discharge?		
c. Was the discharge the result of a 25 year-24 hour rainfall event?	☐ YES	☐ NO
d. What was the precipitation amount? *(if applicable)*		
e. Was IEMA notified of the discharge?	☐ YES	☐ NO
f. Has the facility taken corrective action to remedy the situation which caused the discharge(s)?	☐ YES	☐ NO
If "YES", describe actions taken: **None**		
2. Is the facility currently discharging livestock waste from the production area? If "NO" proceed to next section.	☒ YES	☐ NO
b. Was the discharge the result of a 25 year-24 hour rainfall event?	☐ YES	☒ NO
c. What was the precipitation amount? *(if applicable)*		
d. What is the reason for the discharge? **Feedlots located adjacent to downhill tributary**		

OTHER COMMENTS/NOTES

- Producer has current soil samples for all 1000 acres in 2-1/2 grids and transports manure to outlying fields in semi-dump trailer for land application.
- A more comprehensive field inspection report and photos are attached.

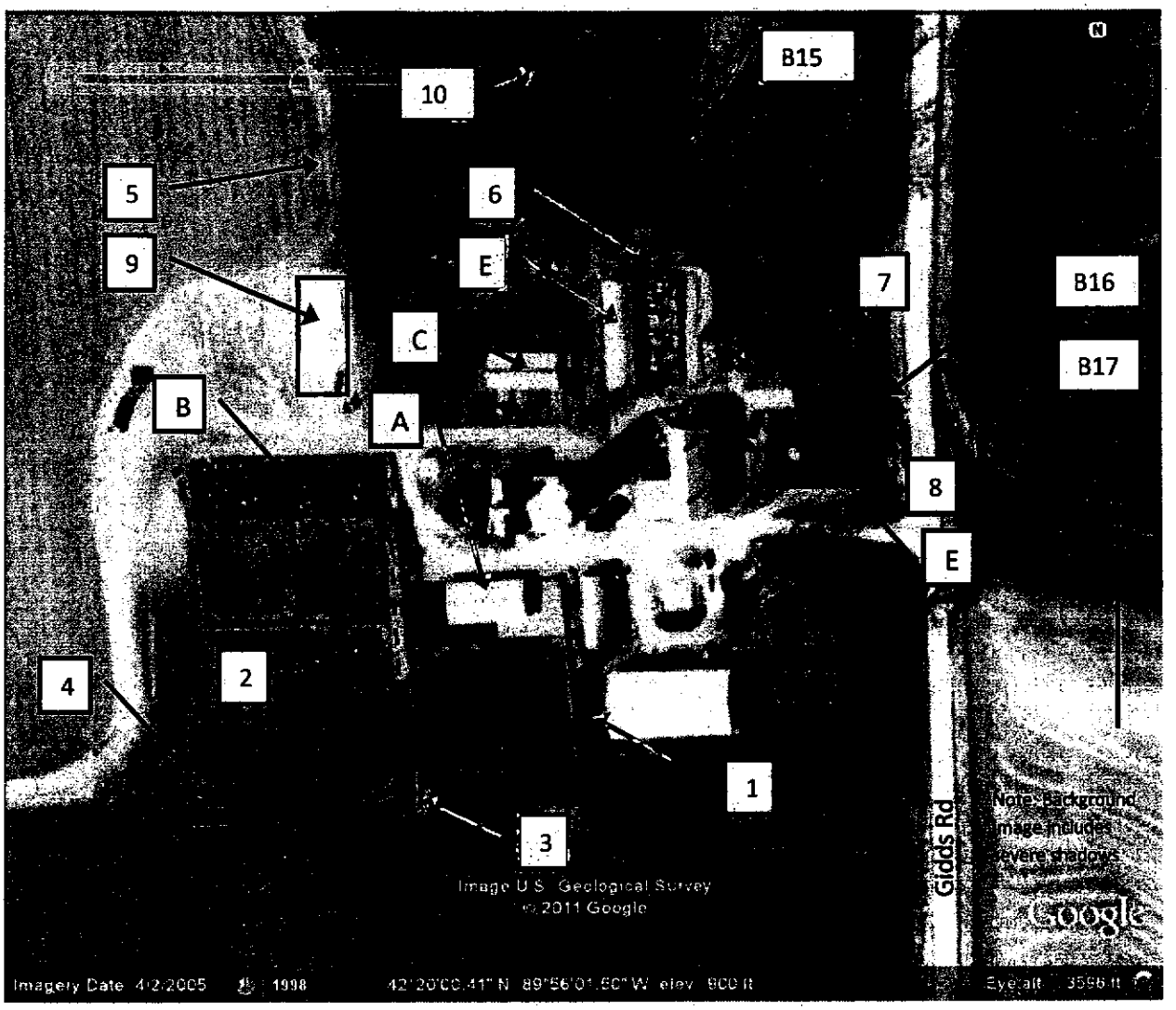
Will an inspection report be attached? ☒ YES ☐ NO

INSPECTOR'S SIGNATURE	**REPORT DATE**
Lee Heaver	4-7-11

Cc: BOW/DWPC/RU

Attachments: _____

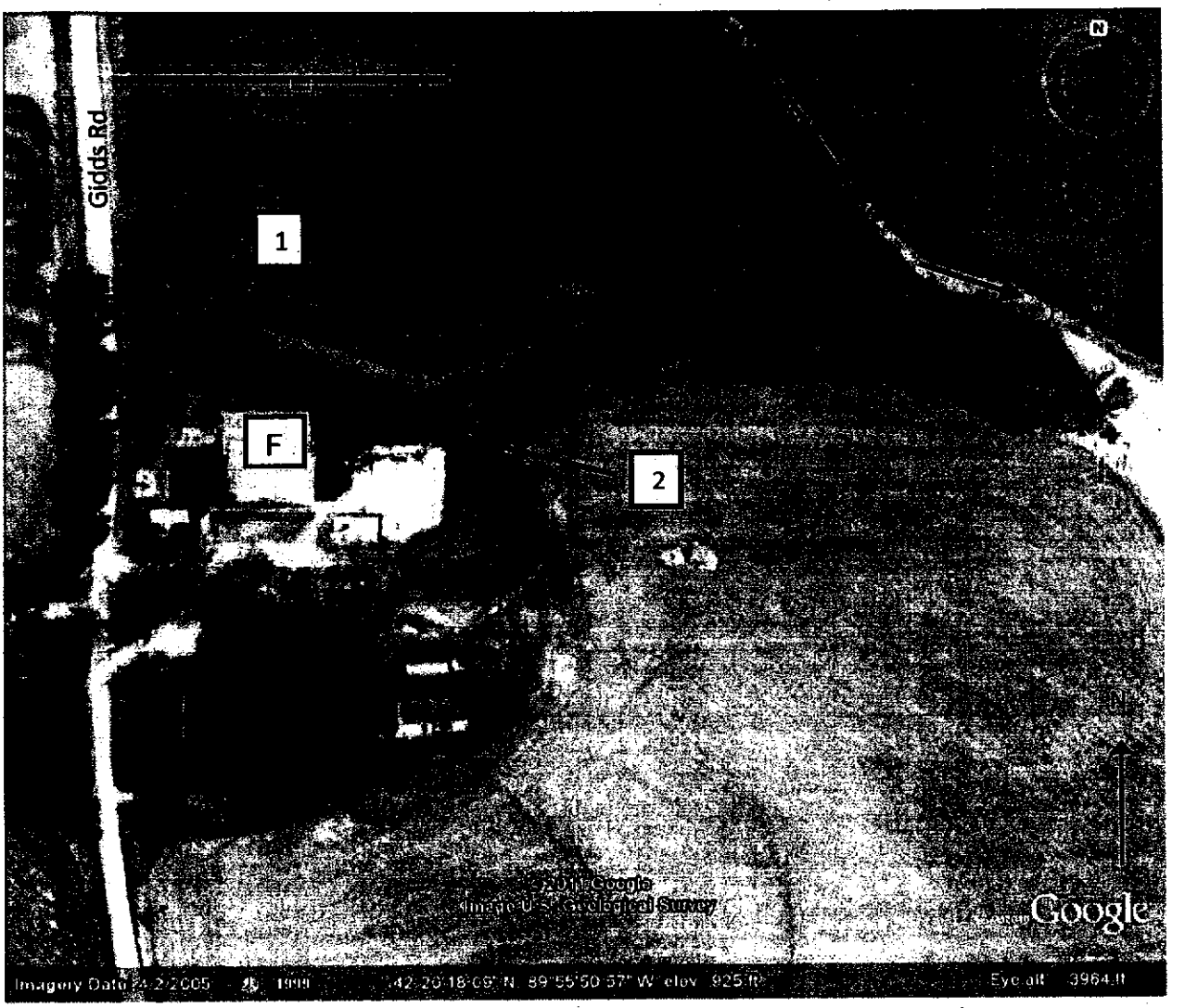
Roger Smital - 2254 Gidds Rd, Kent IL – 4/7/2011



Map Item	Description
1	Feedlot A discharge from concrete area to SE
2	Feedlot A discharge from concrete area to SW lane
3	Manure discharge enters crop field and affects 10-20 feet of area; does not prevent crops from being grown
4	Manure discharge enters crop field and affects approx 20 feet of area; crops are planted in this area
5	Mortality discharge from several deads that were partially covered with manure and bedding
6	Feedlot E (swine open concrete feedlot) discharge from load out ramp
7	Manure discharge from multiple areas that drained north toward tributary
8	Manure discharge from Feedlot D into tributary
9	Silage leachate discharge from bunker silo
10	Unnamed intermittent tributary to Yellow Creek
B15	Upstream sample B-15 collection site
B16	Sample B-16 collection site
B17	Downstream sample B-17 collection site
A-E	Feedlots

IEPA-BOW-DWPC
Rockford Regional Office

Roger Smital - 2229 Gidds Road, Kent IL – 4/7/2011



1	Feedlot discharge on the NW side of the feedlot to a vegetative pasture
2	Feedlot discharge on the east side of the feedlot to a vegetative pasture
F	Feedlot F

10 WARDS GROVE
T. 27 N.–R.5 E.

BERREMAN
T. 26 N.–R.5 E.

Exemption 6 and Exemption 7(C)

Pink

Lab Sheet Color: IEPA - DWPC - FOS - LAB SHEET Field ID No.: B-15 JTV

09-Funding Code: WP02 10-Agency Routing RK 12-File Code: AGRI 13-Sample Type: X

15-Reporting: B 16-DID: Basin ____ County 085 Plant ____ 17-Sampling Program: 19

18-Facility/Sample Pt: Roger Smital Feedlot uphill stream sample (clean)

19-Begin Date: Y Y M M D D 110507 20-Begin (24 hr.clock) H H M M 1400

RECEIVED
MAY 11 2011
ROCKFORD REGION
ENVIRONMENTAL PROTECTION
AGENCY STATE OF ILLINOIS

23-Instructions to Lab: ____

Collected by: KWB 22-Transported by: UPS

27-Received By: ____ Date: Y Y M M D D

Received by: ____ Date: Y Y M M D D

Composite Sample Ending Date: 5 2 9 F 0 Y Y M M D D

Ending Time: 5 2 9 F 0 H H M M (24-hr.clock)

Circle One: Effluent Stream Specials: Influent Process Flows WWTP Sludge Cooling Water Other

Program: ____

NPDES No: ____

Receiving Stream Name: tributary Yellow Creek

Receiving Stream Conditions (velocity,etc): ____

Effluent Conditions: clear, no odor

Weather Conditions: sunny 60's

03-Lab Parameter Group: EFF05

Additional Lab Parameters	Field Parameters	Results
	501F0 Air Temp (°C)	
	502F0 Water Temp (°C)	
	504F0 Dissolved O_2	
	503F0 Conductance	
	500F0 pH	

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit")

Remarks: uphill stream sample

Sampling Techniques: GRAB

SD10331

Mail To:

FOR LABORATORY USE

LAB ID NO.

Sample Received By: ✓

Date Received: APR 08 2011

Time Received: 929 AM ____ PM

Lab Section: ____

Supervisor: cc 5/8/11

IL 532-1575

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**ROGER SMITAL FEED LOT**		
Project/Facility Number:	UPHILL STREAM SAI	Date Received :	04/08/11
Funding Code:	WP02	Visit Number:	
Trip ID:		Temperature C:	2.00
Client Sample ID:	**B 15**	Lab Sample ID:	**SD10331-01**
Matrix:	Water	Collected By: KWB	Date/Time Collected: 04/07/11 14:00
Sample Type:	Grab	Sample Depth:	Total Depth:

Biochemical Oxygen Demand, 5 day, by Standard Method 5210B

Method:	5210B	Prepared:	04/08/11 11:14
Units:	mg/L	Analyzed:	04/13/11 07:42

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
BOD 5DAY	ND		2.00	

Nitrate-Nitrite, Colorimetric, Automated Cadmium by EPA Method 353.2

Method:	353.2	Prepared:	04/12/11 14:31
Units:	mg/L	Analyzed:	04/12/11 16:46

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Nitrogen, Nitrite (NO2) + Nitrat	**10.8**		0.100	

Nitrogen, Ammonia, Potentiometric, Ion Selective by EPA Method 350.3

Method:	350.3	Prepared:	04/28/11 11:25
Units:	mg/L	Analyzed:	04/28/11 14:53

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Ammonia as N	**0.13**		0.10	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645).

Reported:
05/03/11 10:21

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**ROGER SMITAL FEED LOT**		
Project/Facility Number:	UPHILL STREAM SAI	Date Received :	04/08/11
Funding Code:	WP02	Visit Number:	
Trip ID:		Temperature C:	2.00
Client Sample ID:	**B 15**	Lab Sample ID:	**SD10331-01**
Matrix:	Water	Collected By: KWB	Date/Time Collected: 04/07/11 14:00
Sample Type:	Grab	Sample Depth:	Total Depth:

pH

Method:	150.1	Prepared:	04/08/11 14:27
Units:	PH	Analyzed:	04/08/11 14:28

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Laboratory pH	**8.2**		0.0	

Phosphorus, All Forms, Colorimetric, Ascorbic by EPA Method 365.3

Method:	365.3	Prepared:	04/19/11 13:50
Units:	mg/L	Analyzed:	04/21/11 09:54

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Phosphorus as P	**0.182**		0.0050	

Total Suspended Solids by Standard Method 2540D

Method:	2540D	Prepared:	04/13/11 08:50
Units:	mg/L	Analyzed:	04/13/11 11:14

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Total Suspended Solids	**26**		4	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645).

Reported:
05/03/11 10:21

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**ROGER SMITAL FEED LOT**		
Project/Facility Number:	UPHILL STREAM SAI	Date Received :	04/08/11
Funding Code:	WP02	Visit Number:	
Trip ID:		Temperature C:	2.00

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
*	Non-NELAP accredited

Report Authorized by:

Sally Geyston

Sally Geyston
Sample Prep Unit Supervisor

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645).

Reported:
05/03/11 10:21

Lab Sheet Color: PINK

IEPA - DWPC - FOS - LAB SHEET

Field ID No.: B-16

09-Funding Code: WP02 10-Agency Routing RK 12-File Code: A6R1 13-Sample Type: X

15-Reporting: B 16-DID: Basin ____ County 085 Plant ____ 17-Sampling Program: A9

18-Facility/Sample Pt: ROGER SMITAL Feedlot

19-Begin Date: Y Y M M D D 110407 20-Begin H H M M 1405 (24 hr.clock)

RECEIVED
MAY 11 2011
ROCKFORD REGION ENVIRONMENTAL PROTECTION AGENCY STATE OF ILLINOIS

23-Instructions to Lab: ____

21-Collected by: KVB 22-Transported by: UPS

Composite Sample Ending Date: 5 2 9 F 0 Y Y M M D D

Ending Time: 5 2 9 F 0 H H M M (24-hr.clock)

03-Lab Parameter Group: EFE05

Additional Lab Parameters	Field Parameters	Results
	501F0 Air Temp (°C)	___
	502F0 Water Temp (°C)	___
	504F0 Dissolved O_2	____
	503F0 Conductance	____
	500F0 pH	____

27-Received By: ____ Date: Y Y M M D D

Received by: ____ Date: Y Y M M D D

Circle One: Effluent, Influent, Sludge, Stream, Process Flows, Cooling Water — Specials: WWTP, Other

Program: ____

NPDES No: ____

Receiving Stream Name: TRIBUTARY TO YELLOW CREEK

Receiving Stream Conditions (velocity,etc): ____

Effluent Conditions: CLEAR, ~~[illegible]~~ NO ODOR

Weather Conditions: SUNNY, 60°

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit")

Remarks: POINT SOURCE DISCHARGE STMP OF GIDD ROAD CULVERT

SD10332

Sampling Techniques: GRAB

Mail To:

FOR LABORATORY U

LAB ID NO.

Sample Received By: SC

Date Received: APR 08 2011

Time Received: 935 AM ____ PM

Lab Section: ____

Supervisor: 5/5/11

IL 532-1575

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**ROGER SMITAL FEED LOT**		
Project/Facility Number:	[none]	Date Received :	04/08/11
Funding Code:	WP02	Visit Number:	
Trip ID:		Temperature C:	2.00
Client Sample ID:	**B-16**	Lab Sample ID:	**SD10332-01**
Matrix:	Water	Collected By: KWB	Date/Time Collected: 04/07/11 14:05
Sample Type:	Grab	Sample Depth:	Total Depth:

Biochemical Oxygen Demand, 5 day, by Standard Method 5210B

Method:	5210B	Prepared:	04/08/11 11:14
Units:	mg/L	Analyzed:	04/13/11 07:42

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
BOD 5DAY	**5.00**		2.00	

Nitrate-Nitrite, Colorimetric, Automated Cadmium by EPA Method 353.2

Method:	353.2	Prepared:	04/12/11 14:31
Units:	mg/L	Analyzed:	04/12/11 16:48

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Nitrogen, Nitrite (NO2) + Nitrat	**6.64**		0.100	

Nitrogen, Ammonia, Potentiometric, Ion Selective by EPA Method 350.3

Method:	350.3	Prepared:	04/28/11 11:25
Units:	mg/L	Analyzed:	04/28/11 14:53

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Ammonia as N	**0.63**		0.10	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645).

Reported:
05/03/11 10:21

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**ROGER SMITAL FEED LOT**		
Project/Facility Number:	[none]	Date Received :	04/08/11
Funding Code:	WP02	Visit Number:	
Trip ID:		Temperature C:	2.00
Client Sample ID:	**B-16**	Lab Sample ID:	**SD10332-01**
Matrix:	Water	Collected By: KWB	Date/Time Collected: 04/07/11 14:05
Sample Type:	Grab	Sample Depth:	Total Depth:

pH

Method:	150.1	Prepared:	04/08/11 14:27
Units:	PH	Analyzed:	04/08/11 14:28

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Laboratory pH	**7.8**		0.0	

Phosphorus, All Forms, Colorimetric, Ascorbic by EPA Method 365.3

Method:	365.3	Prepared:	04/19/11 13:50
Units:	mg/L	Analyzed:	04/21/11 10:14

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Phosphorus as P	**1.12**		0.0050	

Total Suspended Solids by Standard Method 2540D

Method:	2540D	Prepared:	04/13/11 08:50
Units:	mg/L	Analyzed:	04/13/11 11:14

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Total Suspended Solids	**15**		4	

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Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**ROGER SMITAL FEED LOT**		
Project/Facility Number:	[none]	Date Received :	04/08/11
Funding Code:	WP02	Visit Number:	
Trip ID:		Temperature C:	2.00

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
*	Non-NELAP accredited

Report Authorized by:

Sally Geyston

Sally Geyston
Sample Prep Unit Supervisor

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Reported:
05/03/11 10:21

PINK

Lab Sheet Color: IEPA - DWPC - FOS - LAB SHEET Field ID No.: B-17

09-Funding Code: WP02 10-Agency Routing RK 12-File Code: AGRI 13-Sample Type: X

15-Reporting: B 16-DID: Basin ____ County 085 Plant ____ 17-Sampling Program: Ag

18-Facility/Sample Pt: Roger Smith Feedlot

19-Begin Date: YY 11 MM 04 DD 07 20-Begin HHMM 1410 (24 hr.clock)

RECEIVED
MAY 11 2011
ROCKFORD REGION ENVIRONMENTAL PROTECTION AGENCY STATE OF ILLINOIS

23-Instructions to Lab: ____

21-Collected by: KWB 22-Transported by: ups

Composite Sample Ending Date: 5 2 9 F 0 (YYMMDD) 110529

Ending Time: 5 2 9 F 0 (HHMM) 1410 (24-hr.clock)

03-Lab Parameter Group: EFF05

Additional Lab Parameters	Field Parameters	Results
	501F0 Air Temp (°C)	
	502F0 Water Temp (°C)	
	504F0 Dissolved O_2	
	503F0 Conductance	
	500F0 pH	

27-Received By: ____ Date: YYMMDD

Received by: ____ Date: YYMMDD

Circle One: Effluent, Influent, Sludge, Stream, Process Flows, Cooling Water
Specials: WWTP, Other

Program: ____

NPDES No: ____

Receiving Stream Name: Tributary To Yellow Creek

Receiving Stream Conditions (velocity,etc): ____

Effluent Conditions: clear, moderate

Weather Conditions: Sunny, 60's

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit")

Remarks: downhill to sample of trib. side of Gidd Rd. Culvert

SD10334

Sampling Techniques: GRAB

Mail To: 2

FOR LABORATORY

LAB ID NO.

Sample Received By: SC

Date Received: APR 08 2011

Time Received: 930 AM ____ PM

Lab Section: ____

Supervisor: cc 5/6/11

IL 532-1575

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**ROGER SMITAL FEED LOT**		
Project/Facility Number:	[none]	Date Received :	04/08/11
Funding Code:	WP02	Visit Number:	
Trip ID:		Temperature C:	2.00
Client Sample ID:	**B-17**	Lab Sample ID:	**SD10334-01**
Matrix:	Water	Collected By: KWB	Date/Time Collected: 04/07/11 14:10
Sample Type:	Grab	Sample Depth:	Total Depth:

Biochemical Oxygen Demand, 5 day, by Standard Method 5210B

Method:	5210B	Prepared:	04/08/11 11:14
Units:	mg/L	Analyzed:	04/13/11 07:42

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
BOD 5DAY	**4.90**		2.00	

Nitrate-Nitrite, Colorimetric, Automated Cadmium by EPA Method 353.2

Method:	353.2	Prepared:	04/12/11 14:31
Units:	mg/L	Analyzed:	04/12/11 16:49

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Nitrogen, Nitrite (NO2) + Nitrat	**4.60**		0.100	

Nitrogen, Ammonia, Potentiometric, Ion Selective by EPA Method 350.3

Method:	350.3	Prepared:	04/28/11 11:25
Units:	mg/L	Analyzed:	04/28/11 14:53

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Ammonia as N	**0.88**		0.10	

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LABORATORY RESULTS

Name:	**ROGER SMITAL FEED LOT**		
Project/Facility Number:	[none]	Date Received :	04/08/11
Funding Code:	WP02	Visit Number:	
Trip ID:		Temperature C:	2.00
Client Sample ID:	**B-17**	Lab Sample ID:	**SD10334-01**
Matrix:	Water	Collected By: KWB	Date/Time Collected: 04/07/11 14:10
Sample Type:	Grab	Sample Depth:	Total Depth:

pH

Method:	150.1	Prepared:	04/08/11 14:27
Units:	PH	Analyzed:	04/08/11 14:28

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Laboratory pH	7.5		0.0	

Phosphorus, All Forms, Colorimetric, Ascorbic by EPA Method 365.3

Method:	365.3	Prepared:	04/19/11 13:50
Units:	mg/L	Analyzed:	04/21/11 10:15

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Phosphorus as P	1.46		0.0050	

Total Suspended Solids by Standard Method 2540D

Method:	2540D	Prepared:	04/13/11 08:50
Units:	mg/L	Analyzed:	04/13/11 11:14

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Total Suspended Solids	12		4	

Reported:
05/03/11 10:21

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**ROGER SMITAL FEED LOT**		
Project/Facility Number:	[none]	Date Received :	04/08/11
Funding Code:	WP02	Visit Number:	
Trip ID:		Temperature C:	2.00

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
*	Non-NELAP accredited

Report Authorized by:

Sally Geyston

Sally Geyston
Sample Prep Unit Supervisor

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